

#3.

Hawaiian Explorations.

D<sup>s</sup> 3847 - D<sup>s</sup> 3873.

H<sub>y</sub> 4074 - H<sub>y</sub> 4095.

Apr. 8<sup>th</sup> - 12<sup>th</sup>, 1902

51.30  
49.50  

---

1.40

		2500	
		2600	
		2700	
		2800	
		2900	
Next	Hy.	3000	4074
	Dr.	3100	3847
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *Dr. 3847* Date *8 April, '02.*

Machine. Reel.

Turns — Cor. + Depth *23 fms*Shot or lead *Hand*Bottom *S. St.*

Bottom temperature

No. of thermometer

Corrected temperature

Air *75* Surface *76* Drift *1 3/4' all side*Trawl or dredge *Tangle Swabs. (6)*

## SOUNDING WIRE.

DOWN.

UP.

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

*12-05*

0

*12.09.10 12.42.50**75*  
~~100~~*12.13.40*~~100~~  
~~200~~*12.17.00 12.37.40*

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Seau Light, Molokai Id.  
N 74° 30' W. mag. 23 miles.

OTC  
H.C.

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

NO # 1368.

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500	Tangles. "Very rich" catch.			
600				
700				
800				
900				
1000	3 urchins; 1 apatangoid; 1 sand dollar; 1 holothurian; ascidians;			

REMARKS:

sponges; 1 plumularian; anemones;  
4 pelicycops, 4 gastropods; 1 nudibranch; several bryozoa; corals;  
corallines; hydrocorallines; algae.

No. *Hy. 4074* Date *8 April, '02**Sigsbee* Machine *N<sup>o</sup> 1* Reel. *Navy*Turns *22* Cor. + *2* Depth *24 fms.*Shot or lead *36* LeadBottom *crs. S. G.*Bottom temperature *75*No. of thermometer *80481* Cor.

Corrected temperature

Air *75* Surface *76* Drift

Trawl or dredge

## SOUNDING WIRE.

DOWN.

UP.

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

*12.52.35* *12.56.35**12.53.00* *12.55.00*

0

*22*  
100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

*This station  
marks end of  
No. 3847*

Seau Light, Molokai Id.  
 N 77° 30' W. mag. 23  $\frac{3}{10}$  miles.

O.K.  
 H.O.B.  
 5

2500

2600

HO #1368.

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4600

22

4578

246

244

.2

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.

Hy 4075

Date

8 April 02

Machine.

Reel.

Turns 25 Cor. + 1

Depth 26 fms

Shot or lead 26 Lbs

Bottom S. &amp; G.

Bottom temperature

No. of thermometer

75.

80481

Cor.

Corrected temperature

Air

74

Surface

76

Drift

Trawl or dredge

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

1. 10. 40

1. 13. 00

0

1. 10. 15

1. 11. 50

25

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400



Laan Light, Molokai Id.  
 N 74° W. mag. 21 miles.

OK  
 HCS.

2500

2600

Sto # 1368.

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

496

12

25

11

471

1

25

26

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.

Hy. 4076

Date

8 April 02

Tanner

Machine.

Reel.

Turns 25 Cor. +

1

Depth 26 fms

Shot or lead 26 lbs.

Bottom

crs. S.

Bottom temperature

44.3 69°

No. of thermometer

80481

Cor.

Corrected temperature

Air

74

Surface

76

Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
1.24.20	1.25.40	0		
1.25.00	1.25.10	25		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

## SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *Hy 407*Date *5**Anchor*  
Machine. Recl.Turns *31* Cor. + *1*Depth *32*Shot or lead *26 lb.*Bottom *R.*Bottom temperature *76.2*No. of thermometer *92442* Cor.

Corrected temperature

Air *74* Surface *76* Drift

Trawl or dredge

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
<i>12.14</i>	<i>1.12.05</i>	0		
<i>1.39.25</i>	<i>1.39.25</i>	100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Scan List

1910

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 4078

Date

8 Apr. 1901

Tanner

Machine.

Reel.

Turns 61 Cor. +

Depth 63

Shot or lead 26 lbs

Bottom

fine gy. s.

Bottom temperature 75.2

No. of thermometer 92442 + 80481 Cor.

Corrected temperature

Air 74

Surface 76

Drift

Trawl or dredge

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

0

60

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Dec 21

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

~~110  
61  
435~~

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *3848*Date *Aug 12 1881**W. & A. M. Machine* Machine. *151* Reel. *151*Turns *44* Cor. + *25*Depth *44 fms*Shot or lead *35 lbs.*Bottom *S. & G.*Bottom temperature *75.*No. of thermometer *3850*Cor. *0*

Corrected temperature

Air *80*

Surface

Drift *11*Trawl or dredge *5 1/2' Blake*

## SOUNDING WIRE.

DOWN.

UP.

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

<i>2.02.15</i>	<i>2.05.00</i>	0	<i>2.02.30</i>	<i>52-</i>
<i>2.03.55</i>	<i>2.05.00</i>	<i>40</i>	<i>2.04.00</i>	<i>47-</i>
		<i>100</i>	<i>2.05.00</i>	<i>3-45.10</i>
		<i>125</i>		
		<i>200</i>		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



Sacred Light, Molokai

N 78° 15' W. mag. 22<sup>4</sup>

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	<i>Moderate</i>			
50	<i>Surface breeze from E.N.E.</i>			
100	<i>Surface and 100 fms. breeze.</i>			
200	<i>Surface and 200 fms. breeze.</i>			
300	Trawl: 1 large holothurian;			
400	several ophiurans; several urchins;			
500	2 sps; 1 starfish; 1 small crab;			
600	6 sps. hydroids; 5 sps. Crabs; sev			
700	alpheids; Caprells; few annelids.			
800				
900				
1000				

# REMARKS:

Surface temp. 3.22

100 fms. " " 3.36

200 fms. " " 3.50

Large and small blue copepods.

No. *3849* Date *Jan 8 '92*

Tanner Machine. Reel.

Turns *70* Cor. + *3* Depth *73 fms*Shot or lead *26 lbs.*Bottom *bk. Sh. Co. cr. S.*Bottom temperature *70.3°* (*67.6°*)No. of thermometer *72-12* Cor. *N 2006*

Corrected temperature

Air *80* Surface *76* Drift *(P)*Trawl or dredge *10' Blake*

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

*3-55.50*  
*57-**58.30*  
*57.20**0**100**150**200**300**400**500**600**700**800**900**1000**1100**1200**1300**1400**1500**1600**1700**1800**1900**2000**2100**2200**2300**2400**4-06.00* *51.30**11.40* *46.50**13.00* *4-44.40**This station*  
*marked with*  
*the No. 3849*

		2500	
		2600	
496	12	2700	
70	9	2800	
426	3	2900	
	70	3000	
	73	3100	
		3200	
		3300	
		3400	
462	24	3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Surface temp			
50	5-10 fms			
100	10-20 fms			
200	20-30 fms			
300				
400	Trawl: many large starfish 8, 2 sps;			
500	5 sps. crabs; many small crabs; 1 or 2 sps.			
600	shells; hydroids; many small crabs			
700	few small crabs; Bryozoa; many fungus;			
800	many small crabs; pteropods; few			
900	pteropods - many small crabs; small			
1000	small crabs.			

REMARKS:

Surface net: 4.15 PM  
 " " in " 4.42 "

Surface net:

Few crabs; much sphaerocornis;

No. *3850* Date *Aug 8-02**Sigsbee* Machine. Reel.Turns *41* Cor. + *2* Depth *43*Shot or lead *96*Bottom *crs. S. bk. sh. Co.*Bottom temperature *72.2°* *71.7°*No. of thermometer *75412-80451* Cor. *N 55° E*Corrected temperature *X 6*Air *80* Surface *70* DriftTrawl or dredge *10 ft. K 40*

## SOUNDING WIRE.

DOWN.

UP.

*4.54.30*  
*5.53**56.20*  
*55.30*

TURNS.

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

## DREDGE ROPE.

DOWN.

UP.

*5.02*  
*5.05.20**Spec. Bottom not  
taken. See Log 3849.*

Station 122, 22900

950  
500

496 12  
41 10  
455 2  
41  
43

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

...; few large ...  
... sps; several crabs of ...  
...; ...  
...; several sps ...  
...; ...

No. *4499* Date *Apr 5 1881*  
*Tanner* Machine. Reel.  
 Turns *26* Cor. + *2* Depth *26 7 1/2*  
~~Shot or lead~~ *26 lb*  
 Bottom *gy S.*  
 Bottom temperature *72° (71°)*  
 No. of thermometer *2002-1000* Cor.  
 Corrected temperature  
 Air *80* Surface *76* Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>51 37.40</i>		<i>63</i>		
<i>38 22.15</i>		<del>400</del>		
		200		
		300		
		400		
		<del>500</del>		
		<del>600</del>		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*The station is 3850*

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
446	12	3400	
		3500	
132		3600	
		3700	
	66	3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

*Hydrographic*  
 No. *3857* Date *Jan 5 1902*  
*Machine* *Reel*

Turns Cor. + Depth *6.5 fms*

Shot or lead *10 lbs.*

Bottom *S. Sh. Co.*

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *74* Surface *74* Drift

Trawl or dredge *Beam Trawl - Dip Net*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>120</i>		0	<i>7-20</i>	
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



Kamals Landing,  
North (true) 8/10' 0

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	<i>Light breeze from N.E. 6-8 kts. Light swell. Burying sea</i>			
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

# REMARKS:

Shrimps very abundant;  
melids; 1. shot fish

No. 445

Date 11/11/11

Tanner Machine. Reel.

Turns 27 Cor. + 1 Depth 28 fms.

Shot or lead 26 lbs.

Bottom cor. G.

Bottom temperature 75.2 / 74.

No. of thermometer 92442 + 8048 Cor.

Corrected temperature

Air 73 Surface 74 Drift

Trawl or dredge

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

8.11.11

8.11.11

0

8.12.11

8.12.11

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

<div> <div> <div>496</div> <div>27</div> <div>460</div> </div> <div> <div>12</div> <div>11</div> <div>27</div> <div>29</div> </div> </div>	<div> <div>12</div> <div>11</div> <div>27</div> <div>29</div> </div>	2500	<div> <div>1858</div> </div>	
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *Dr. 3852*. Date *Apr 1891*  
*Tanner* Machine. Reel.  
 Turns *45* Cor. + *2* Depth *47*.  
 Shot or lead *26 lbs.*  
 Bottom *M. S. R.*  
 Bottom temperature *76.*  
 No. of thermometer *72442 - 80481* Cor. *50'*  
 Corrected temperature *50.1*  
 Air *73* Surface *74* Drift  
 Trawl or dredge *10' Blak.*

## SOUNDING WIRE.

DOWN.

UP.

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

*6.23.56*  
*1.10.00*

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Mokuhooniki Kk, Moloikai Channel  
 N 49° 30' E. 14 7/10 mile

OK  
 100  
 200

2500  
 2600  
 2700  
 2800  
 2900  
 3000  
 3100  
 3200  
 3300  
 3400  
 3500  
 3600  
 3700  
 3800  
 3900  
 4000

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

## REMARKS:

Surface Net done at 8.42 a.  
 " " " " 8.47 " = 15  
 Surface net/catch not listed.



No. *15.385* Date *June 1882*  
*Sigsbee* Machine. Reel.  
 Turns *110* Cor. + *5* Depth *115 fms*  
 Shot or lead *26 lb*  
 Bottom *crs. S. - Sh.*  
 Bottom temperature *70.*  
 No. of thermometer *92.442* - *5* Cor.  
 Corrected temperature *71*  
 Air *74* Surface Drift  
 Trawl or dredge

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

## REMARKS:

Catch = Many munidia; 2 prawns;  
1 mallophysis; 1 small fish; fair shrimp;  
1 tectibranch; several mysaroids; 3  
mysis.

No. *3854* Date *April 02*Sigsbee Machine. *101* Reel. *Heavy*Turns *122* Cor. + *12* Depth *134 fms.*~~Shot or lead~~ *26 lbs.*

Bottom

*S. R. Sh.*Bottom temperature *69. + 69.7*No. of thermometer *92412-80481* Cor.

Corrected temperature

Air *75* Surface *74* Drift

Trawl or dredge

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400



2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

hydrograph; 2 kinds coral

REMARKS:

1 coral; 1 anti batharian; p.  
attached to rocks; smaller than

No. *273855* Date *June 1, 1901*

*Sigsbee* Machine. *M* Reel. *2*

Turns *118* Cor. + *12* Depth *130 fms*

Shot or lead *36 lbs.*

Bottom *fine br. S & G.*

Bottom temperature *60.5*

No. of thermometer *2442* Cor. *-1.1*

Corrected temperature

Air *76* Surface *75* Drift *11*

Trawl or dredge *6' Angler S trap*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

*12:34.10 PM*

*12 M.*

*56.30*

*52.50*

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

# REMARKS:

Wm. H. & Geo. W.

No. *N<sup>o</sup>* 3856

Machine.

Turns 115 Cor. +

Depth 127 m

~~Shot or lead~~

*Bottom*

Bottom temperature

115-

No. of thermometer 72442 - 80481 Cor.

Corrected temperature

*Air*

### Surface

### Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
12-07.40	11.25	0	12-20.	11.20
09	10.10	100	24.50	07.10
04	09.20	110	28.40	02.50
		200	32.50	58.20
		275	37.5	12-54 =
		300		
		350		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2-571

OK  
4100  
4100  
4100

461.2  
115  
4485

226  
234  
12  
115  
127

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

much =  
 mudria; many echinoids, 1 sp.  
 tubes on broken spines; 2 ab.  
 nares; Holothuridae; 2 sp.  
 lamellibranch shells; 2 sp. nares  
 nares.

No. *3857* Date *Apr 9 1902*Machine. *F* Reel. *T*Turns *115* Cor. + *12* Depth *127 fms*Shot or lead *36 lbs.*Bottom *fm S. gy. M.*Bottom temperature *62 62.5*No. of thermometer *92442-10451* Cor.

Corrected temperature

Air *77* Surface *74* DriftTrawl or dredge *10 Blake*

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

<i>7-18.15</i>	<i>22.15</i>	0	<i>1-27.30</i>	<i>17.20</i>
<i>19.25</i>	<i>21.05</i>	100	<i>34 =</i>	<i>13 =</i>
<i>19.40</i>	<i>20.50</i>	<i>115</i>	<i>38.50</i>	<i>07.20</i>
		200	<i>43.50</i>	<i>2-03.20</i>
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
4600	246	3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

1211 = REMARKS:

as; many  
 1 starfish; many large prawns;  
 1 small shrimp; several small  
 worms. C

No. *3507* Date *Aug 22*

Machine. Reel.

Turns *116* Cor. + *12* Depth *128 fms*

Shot or lead *36 lbs.*

Bottom *gy. S. gy. M.*

Bottom temperature *61.8°* (*61.5°*)

No. of thermometer *95233* Cor.

Corrected temperature

Air *79* Surface *74* Drift

Trawl or dredge *10' Blake*

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

<i>2- 2-15</i>	<i>28 05</i>	<i>0</i>	<i>2- 37-30</i>	<i>22-40</i>
<i>23-25</i>	<i>26-55</i>	<i>100</i>	<i>38-55</i>	<i>18-30</i>
<i>23-40</i>	<i>26-45</i>	<i>116</i>	<i>43-30</i>	<i>13-45</i>
		<i>200</i>	<i>48-20</i>	<i>3- 01-50</i>
		<i>300</i>		
		<i>400</i>		
		<i>500</i>		
		<i>600</i>		
		<i>700</i>		
		<i>800</i>		
		<i>900</i>		
		<i>1000</i>		
		<i>1100</i>		
		<i>1200</i>		
		<i>1300</i>		
		<i>1400</i>		
		<i>1500</i>		
		<i>1600</i>		
		<i>1700</i>		
		<i>1800</i>		
		<i>1900</i>		
		<i>2000</i>		
		<i>2100</i>		
		<i>2200</i>		
		<i>2300</i>		
		<i>2400</i>		



2500	2
2600	
2700	
2800	
2900	
3000	
3100	
3200	
3300	
3400	
3500	
3600	
3700	
3800	
3900	
4000	

## SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

Catch:

Many slender-spined urchins;  
 2 qts. murex; 1 kind crab; 1 hippa-  
 like crustacean; 5 kinds shrimps;  
 pennatulid; 2 kinds of  
 hydroids; balanus; several flounders;  
 1 sculpin; 1 trigloid; several  
 callinectes; 1 halieutichthys;  
 1 small fish.

## REMARKS:

REMARKS: 2 sp. *Amphipoda*; 1 *Isopoda*; 1 *Decapoda*; 2 sp. *Flounders*; 1 *Trigloid*; 1 sp. *Malthopsis*; 1 *Cottoid*; *Brachyopod* shells; 2 sp. *Did* *Hydr* shells; *Aloual* *Meridula*; *Per* *mit* *Shells*.

No. *405*Date *July 102*

Machine.

Reel.

Turns *125* Cor. + *13*Depth *138 fms*Shot or lead *36 lbs.*Bottom *in S.*Bottom temperature *54.6**54.7* *54.7(3)*No. of thermometer *72442*Cor. *-0.03*

Corrected temperature

*54.2 = 54.4*Air *77*Surface *77*

Drift

Trawl or dredge ~~*125 fms*~~

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

*26.15**32.15*

0

*27.30**31.10*

100

*27.50**30.50**125*  
~~200~~

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

CK 1000 1000	<div>✓</div>	2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

4250  
 125  
 4475  
 225  
 235  
 13  
 125  
 135

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.

Date

Machine.

Reel.

Turns

Cor. +

13

Depth

138

Shot or lead

35

Bottom

Very fine S + M.

Bottom temperature

60.

60.5

No. of thermometer

1244

Cor.

0 - 1 - 00

Corrected temperature

60.5

60.3

Air

76

Surface

74

Drift

110

Trawl or dredge

10' Blake

## SOUNDING WIRE.

DOWN.

UP.

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

DOWN.	UP.	TURNS.	DOWN.	UP.
4:12.00	4:09.30	0	4:12.00	5:07.00
1:13.00	4:08.00	100	1:13.00	5:05.30
		125		5:04.00
		300		4:56.00
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



No. 11067 Date July 10 1902  
 Machine. Reel.  
 Turns 127 Cor. + Depth 140  
 Shot or lead  
 Bottom  
 Bottom temperature  
 No. of thermometer 8233-71234 Cor. -0.2-0  
 Corrected temperature 58.2  
 Air 76 Surface 75 Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
10500	5.11.30	0		
620		100		
0650		127		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

## SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 11083 Date Apr 11 1902  
 Machine. Reel.

Turns 122 Cor. + 12 Depth 134  
 Shot or lead 36 lb  
 Bottom fm. S.  
 Bottom temperature 59.7 60.0  
 No. of thermometer 98735 98736 Cor. -0.3 -0.3  
 Corrected temperature 59.4 - 59.7  
 Air 76 Surface 75 Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
	200	3500	
100	200	3600	
	100	3700	
	100	3800	
	100	3900	
		4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 5860 Date 9<sup>th</sup> Dec 1902

Machine Reel

Turns Cor. Depth 6 1/2 fms

Shot or lead Hook Bottom Rky. Co S.

Bottom temperature No. of thermometer Cor. Corrected temperature

Air 73 Surface 75 Drift none

Trawl or dredge Shot 115. 2 dip nets

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	7:40	
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	24.0	1		
50	23.5	2		
100	23.0	3		
200	22.5	4		
300	22.0	5		
400	21.5	6		
500	21.0	7		
600	20.5	8		
700	20.0	9		
800	19.5	10		
900	19.0	11		
1000	18.5	12		

# REMARKS:

Catch.

1 chaenomysis; several athenia;  
 1 leuthis; few heteronereis; few  
 shrimp.

No. *3861* Date *Apr 10-1902*

*Stanner* Machine. Recl.

Turns *29* Cor. + *1* Depth *30 fms*

Shot or lead *26 lbs.*

Bottom *fine c. m. P. Co.*

Bottom temperature

No. of thermometer } *none* Cor.

Corrected temperature

Air *72* Surface *74* Drift

Trawl or dredge *5*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>6-52 30</i>	<i>54 20</i>	0	<i>6-52 10</i>	<i>32 40</i>
<i>54 40</i>	<i>54</i>	<i>50</i>	<i>55.30</i>	<i>18 30</i>
		<i>100</i>	<i>7 am</i>	
		<i>125</i>	<i>7-01 20</i>	<i>7-16 20</i>
		<i>300</i>		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
	12	3100	
476	11	3200	
27	1	3300	
467	28	3400	
	36	3500	
		3600	
		3700	
		3800	
		3900	
		4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

several lamelli branches; sponges;  
 REMARKS:  
 several callionymus; 2 species  
 flounders.

11/11/1902



No. *4854* Date *Jan 10, 1902*

Machine. Reel.

Turns *50* Cor. + *2* Depth *52 fms*

Shot or lead *26 lbs.*

Bottom *fine gy. sand & sh. C. Co.*

Bottom temperature *73.*

No. of thermometer *8233-95234* Cor. +0.1 - -0.0

Corrected temperature *73° 23°*

Air *73* Surface *70* Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

*27.20 32.15*  
*28.50 31.20*

*Marks*  
*5-3861.*

- 0
- 100
- 200
- 300
- 400
- 500
- 600
- 700
- 800
- 900
- 1000
- 1100
- 1200
- 1300
- 1400
- 1500
- 1600
- 1700
- 1800
- 1900
- 2000
- 2100
- 2200
- 2300
- 2400

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
496	12	3400	
50	10	3500	
446	2	3600	
	50	3700	
	52 f	3800	
		3900	
		4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

*Antilles*  
 No. *3562* Date *Apr 10 1902*  
*Tanner* Machine. Reel.  
 Turns *104* Cor. + *4* Depth *108 fms*  
 Shot or lead *36 lbs*  
 Bottom *Co S + Sh. Wky*  
 Bottom temperature *68° - 68°*  
 No. of thermometer *8233-75234* Cor. *0 1°*  
 Corrected temperature *68° 68°*  
 Air *73* Surface *75* Drift  
 Trawl or dredge *5 ft X 10 ft*

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

<i>44</i>	<i>48 50</i>	0	<i>154 00</i>	<i>7 5 10</i>
<i>45</i>	<i>46 50</i>	100	<i>57 00</i>	<i>2 50</i>
<i>45 05</i>	<i>46 35</i>	200	<i>8 00 00</i>	<i>2 15</i>
		300	<i>0 15</i>	<i>2 00</i>
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



NO. 1112-0, 425

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
496	12	3300	
104	8	3400	
392	4	3500	
	104	3600	
	108	3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Catch: ~~at~~ piece of coral with anemone attached, nothing else.

No. *3813 D* Date *Apr. 10 1902*  
*Sigsbee* Machine. / Reel. *NAVY*  
 Turns *114* Cor. + *12* Depth *126 710*  
 Shot or lead *36*  
 Bottom *Wk. G. S. M. D. R.*  
 Bottom temperature *61.3 60.3*  
 No. of thermometer *1114* Cor. *-0.3 - -0.3*  
 Corrected temperature *61.0 60.0*  
 Air *74* Surface *76* Drift *12 1/2 S 1/2 E*  
 Trawl or dredge *18' 9' 11' 12' 13' 14'*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>11:00</i>	<i>8:20</i>	0	<i>11:00</i>	<i>8:20</i>
<i>11:02</i>	<i>8:18</i>	100	<i>11:02</i>	<i>8:18</i>
<i>11:04</i>	<i>8:16</i>	200	<i>11:04</i>	<i>8:16</i>
		300	<i>11:06</i>	<i>8:14</i>
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
4500	246	3300	
115	234	3400	
4495	12	3500	
	115	3600	
	127	3700	
		3800	
		3900	
		4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

# REMARKS:

Catch: Much branching coral, pink and white; 2 starfish; 2 kinds urchins; 1 Dapod; few Hydroids; few ophiurans; 1 sessile crinoid.

*Stair*  
 No. *4085* Date *April 1902*  
*219060* Machine. / Reel. *1000*  
 Turns *140* Cor. + *14* Depth *154*  
 Shot or lead *36*  
 Bottom *fine grey S.*  
 Bottom temperature *64* *63°*  
 No. of thermometer *91733-91734* Cor. *0*  
 Corrected temperature *64°* *63°*  
 Air *77* Surface *76* Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>2:20</i>	<i>2:30</i>	0		
<i>2:25</i>	<i>2:25</i>	100		
<i>0.00</i>	<i>2:00</i>	<i>140</i>		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

N 62° 30' W. true 2 3/10 mil

OK  
H.C.B.

4600 246  
140 232  

---

4460 14

140  
100

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

HOA Rev.

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

C.L. 82.1

*Handwritten scribbles*

No. 4086 Date Apr 10 1907  
Machine. 1 Reel. Navy

Turns 99 Cor. A Depth 76 fms

Shot or lead

Bottom

Bottom temperature

No. of thermometer 78233-78235 Cor. 0

Corrected temperature 71.2 71.3

Air 78 Surface 75 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
10:02.50	107.20	0		
04.50	04.40	100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
4690	746	3100	
	737	3200	
1000		3300	
	69	3400	
	76	3500	✓
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

P.L. 83.26

No. 401 Date Apr 10 02

Machine. Reel.

Turns 41 Cor. 42 Depth 51 fms

Shot or lead

Bottom gy s. t. b.

Bottom temperature 72.0 72.0

No. of thermometer 7103 7104 Cor. 0

Corrected temperature 72.0 72.0

Air 76 Surface 70 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
10.00	10.22	0		
27.00	11.20	100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
48	12	3100	
41	10	3200	
667	?	3300	
	157	3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

*P.L. 84.6*  
 No. *1098* Date *10 Apr 02*  
*Van Ness* Machine. Reel.  
 Turns *46* Cor. + *2* Depth *48 fms*  
 Shot or lead *36 lb*  
 Bottom *gy. S. M.*  
 Bottom temperature *73.0*  
 No. of thermometer *782* Cor. *+0.1 -0.0*  
 Corrected temperature *73.2*  
 Air *77* Surface *72* Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>Alt</i> 10:35:30	10:38:30	46		
36.30	07.00	100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
446	12	3100	
46	10	3200	
<hr/>		3300	
450	2	3400	
	46	3500	
	<hr/> 48	3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

P.L. 70.5

No.

Date

10/02/02

Machine.

Reel.

Turns

146

Cor. +

10

Depth

163

Shot or lead

26

Bottom

fine sand & shells

Bottom temperature

56.2

No. of thermometer

98442

Cor.

-0.3

Corrected temperature

55.9

57.5

Air

77

Surface

Drift

Trawl or dredge

5 ft

Beck

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

11.27.00

11.43.15

0

11.57.10

12.55.40

11.31.50

11.41.45

100

11.55.40

31.40

148

11.57.10

32.40

300

12.03.20

28.40

350

12.05.35

12.26.00

400

500

600

700

800

900

Current over 0100s not seen when from mouth to end, and nearly the half

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
4100	3100	
148	3200	231
44.5	3300	1
	3400	148
	3500	163
	3600	
	3700	
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Light to greenish blue NE. Wind, sea clear and cloudy, hazy.			
50				
100				
200	Trawl: 2 plumularians; several munidia; 1 hydroid; coral fragments.			
300				
400				
500				
600				
700				
800				
900				
1000				

# REMARKS:

Surface net at 12.00 } 27<sup>m</sup>  
 " " " " 12.30 }

Surface net:

1 blue shrimp; few blue & few red  
 copepods; little sphaerocum.

No. *Hy. 1087* Date *10 Oct. '02*

*Sigsbee* Machine. *X* Reel. *Navy*

Turns *180* Cor. + *18* Depth *198 fms.*

~~Shot or lead~~ *36 lbs.*

Bottom *L. S. G.*

Bottom temperature *49.4*

No. of thermometer *7124* Cor. *-0 - -0.2*

Corrected temperature *49° - 48°*

Air *76* Surface *75* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>12.46.10</i>	<i>12.53.40</i>	0		
<i>47.20</i>	<i>52.30</i>	100		
<i>12.49.50</i>	<i>12.51.20</i>	<i>180</i> <del>200</del>		
		300		
		400		
<i>Mr. Mark</i>		500		
<i>at</i>		600		
<i>11.28.44</i>		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
1600	250	3600	
180	228	3700	
4420	19	3800	
	190	3900	
	198	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *1125* Date *10 Jan 02*  
*2.25* Machine. Reel. *Navy*  
 Turns *233* Cor. + *23* Depth *256 fms.*  
 Shot or lead *36 lbs.*  
 Bottom *fine S. M.*  
 Bottom temperature *45. 45.*  
 No. of thermometer *925-9130* Cor. *-0 -0.2*  
 Corrected temperature *45. - 44.8*  
 Air *55* Surface *55* Drift *0*  
 Trawl or dredge *10 ft Blake*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>17 25</i>	<i>1. 26. 00</i>	0	<i>1. 26. 00</i>	<i>2. 19. 15</i>
<i>18 00</i>	<i>24. 45</i>	100	<i>36.30</i>	<i>52. 15</i>
<i>21. 00</i>	<i>2. 20</i>	200	<i>40.40</i>	<i>47.15</i>
<i>21. 40</i>	<i>1. 23. 10</i>	<i>233</i> <del>300</del>	<i>45.20</i>	<i>40.50</i>
		400	<i>50.00</i>	<i>35.20</i>
		500	<i>55.10</i>	<i>26.20</i>
		600	<i>1. 57.30</i>	<i>2.19.30</i>
		700		
		800		
		900		
		1000		
		1100		
		1200	<i>600 and 380 fms.</i>	
		1300	<i>2. 50.00</i>	
		1400	<i>2. 50.00</i>	<i>"</i>
		1500	<i>1. 50.00</i>	<i>"</i>
		1600	<i>1. 50.00</i>	<i>"</i>
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



Hokuhoniki  
8-100 m.

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

233  
4367

223  
23  
233

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	21.2	1		
50	21.4	2		
100	21.6	3		
200	Trawl caught: much sand & mud.			
300	many antedon; spider crab; hermit			
400	crabs; pul prawns of soil up; mini-			
500	tic; 2 sp. shrimp; 1 sp. prawn;			
600	1 sp. shrimp; 1 sp. prawn; 1 sp. gastropod;			
700	gastropods; lamellibranchs; dentalia;			
800	various; 1 sp. shrimp; 1 sp. prawn;			
900	1 sp. shrimp; 1 sp. prawn; 1 sp. gastropod;			
1000	2 sp. shrimp; 1 sp. prawn; 1 sp. gastropod;			

REMARKS:

Surface net over at 1.55 p.

" " in at 2.05 "

Surface net:

Sphaeromyces; various copepods;  
seriola inv.; several sagittae.

No. *Dr. 5866.* Date *10 Apr. '02.*Sigsbee Machine. *1.* Reel. *Na*Turns *257* Cor. + *26* Depth *283 fms.*Shot or lead *36 lbs.*Bottom *gy. M. sh.*Bottom temperature *43.8 44.*No. of thermometer *1001-7121* Cor. *-0- 0.2*Corrected temperature *43.8 43.9*Air *75* Surface *75* DriftTrawl or dredge *10 ft. Blake*

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

<i>8.03.00</i>	<i>3.11.25</i>	0	<i>8.05.00</i>	<i>3.11.50</i>
<i>08.15</i>	<i>10.30</i>	100	<i>20.55</i>	<i>43.45</i>
<i>08.30</i>	<i>09.25</i>	200	<i>21.50</i>	<i>43.50</i>
<i>3.08.00</i>	<i>3.08.00</i>	<i>300</i>	<i>22.50</i>	<i>37 =</i>
		400	<i>23.50</i>	<i>32.30</i>
		500	<i>24.50</i>	<i>23.15</i>
		600	<i>25.50</i>	<i>20.30</i>
<i>Sh. Mark</i>		<i>650</i>	<i>26.50</i>	<i>19.30</i>
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
4600	246	3500	
257	220	3600	
	26	3700	
	257	3800	
	285	3900	
		4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.

3867

Date

Machine.

Reel.

Turns

258

Cor. +

26

Depth

284 fms

Shot or lead

36 lbs.

Bottom

fm S + M.

Bottom temperature

44

44

No. of thermometer

233-

Cor.

-0. - 0.2

Corrected temperature

44°

43°

Air

80

Surface

75

Drift

Trawl or dredge

10'

Blake

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

5-12-40

10 50

0

5-14-20

59.30

35-10

09.40

100

18.00

53.45

05-10

08.30

200

22.15

48.50

06 -

17.20

258

26.50

41.35

300

400

30.50

34.20

500

35.15

28.15

600

38.40

21.30

650

44.00

21.30

700

6.11

6.16.00

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Marks end of  
Sic B 3866

Lost one  
Ship net

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
4600	246	3400	
258	220	3500	
2342	26	3600	
	258	3700	
	254	3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP. °	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

shells. 10 species of fishes =

REMARKS:

malacocephalus taevis; optonurus athero-  
don; chlorophthalmus proridius; ceclocephalus  
acipenserinus; seristidion hians;  
hymenoccephalus antiaeus; pelicanichthys  
crumenalis; melanostoma argyreum;  
malthopsis mitrigen.

No. *Hy 4090* Date *Sept 10 1902*

*Sigsbee* Machine. Reel. *Flange*

Turns *264* Cor. + *26* Depth *290 fms*

Shot or lead *36 lbs.*

Bottom *fn. M*

Bottom temperature *43.7 44*

No. of thermometer *8233-75234* Cor. *0 - 0.2*

Corrected temperature *43.5 43.8*

Air *75* Surface *74* Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

*7:58 = 16.20*

*09.20 15 =*

*10.25 14.05*

*11.20 13.15*

0

100

200

*264*

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
4600	246	3400	
264	220	3500	
4336	26	3600	
	264	3700	
	290	3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *3505* Date *Apr 11, 1902*  
Machine. *1* Reel. *1*  
Turns *267* Cor. + *3 1/2* Depth *29 1/2*  
Shot or lead *35*  
Bottom *fine gy. sh. & K.*  
Bottom temperature *44.5*  
No. of thermometer *9016* Cor. *-0 -0.2*  
Corrected temperature *44.5 43.6*  
Air *74* Surface *74* Drift  
Trawl or dredge *10 ft Blake*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

5. 11. 00	5. 47. 40	0	5. 11. 00	5. 47. 40
13. 15	21. 20	100	5. 13. 15	5. 49. 00
14. 00	20. 00	200	6. 01. 00	17. 00
15. 30	5. 29. 30	267	5. 09. 15	06. 30
		400	12. 10	7. 01. 45
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

46 00 241  
267 21  
43 33 2  
267  
274

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	1.16-1.18	1000	1.16	1.16
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

## REMARKS:

Catch:

2 kinds gorgonians; shrimps;  
Crinoid; starfish; ophiuran; Compound  
ascidian; macrurus; Brachidictya  
of unknown relationship C.

No. *11* Date *Nov 11 1902*  
 Machine. / Reel. *Haw*  
 Turns *622* Cor. *+* *62* Depth *684 fms.*  
 Shot or lead *36*  
 Bottom *br M. Rky.*  
 Bottom temperature *38.7 38.7*  
 No. of thermometer *7062 7062* Cor. *+.1*  
 Corrected temperature *38.8 38.8*  
 Air *74* Surface *74* Drift *4 1/2' acc*  
 Trawl or dredge *9 ft Tanner.*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

<i>22.30</i>	<i>44.00</i>	0	<i>8.00.00</i>	<i>11.42.05</i>
<i>3.40</i>	<i>43.00</i>	100	<i>11.10</i>	<i>38.00</i>
<i>34.43</i>	<i>47.15</i>	200	<i>16.10</i>	<i>34.10</i>
<i>35.50</i>	<i>46.10</i>	300	<i>21.10</i>	<i>30.00</i>
<i>37.10</i>	<i>45.00</i>	400	<i>26.10</i>	<i>27.20</i>
<i>38.20</i>	<i>43.50</i>	500	<i>30.40</i>	<i>23.15</i>
<i>39.40</i>	<i>42.35</i>	600	<i>34.00</i>	<i>18.00</i>
<i>40.00</i>	<i>42.00</i>	<i>622</i>	<i>37.10</i>	<i>5.00</i>
		700		
		800	<i>41.05</i>	<i>11.08.00</i>
		900	<i>44.25</i>	<i>50.00</i>
		1000	<i>48.00</i>	<i>12.00</i>
		1100	<i>53.10</i>	<i>10.00</i>
		1200	<i>57.10</i>	<i>10.00</i>
		1300	<i>01.01.5</i>	<i>5.00</i>
		<i>1360</i>	<i>01.03.5</i>	<i>5.00</i>
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*Station moving on*

*at 7.02.15, and in 13.00*

*from 13.00, and in 13.00*

*from 13.00, and in 13.00*

*from 13.00, and in 13.00*

*from 13.00, and in 13.00*

*from 13.00, and in 13.00*

*from 13.00, and in 13.00*

*from 13.00, and in 13.00*

*from 13.00, and in 13.00*

*from 13.00, and in 13.00*

*from 13.00, and in 13.00*

*from 13.00, and in 13.00*

*from 13.00, and in 13.00*

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
1/000	186	3100	
622	184	3200	
2478	62	3300	
	622	3400	
	684	3500	
		3600	
		3700	
		3800	
		3900	
		4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

# REMARKS:

All but the 2000 ft. depth lost:  
 Lost: 1 Trawl Trawl, 9 ft., the red  
 ground of 1 shot, 35 lbs.

Two sharks taken alongside;  
 3 remora secured from them.

No. *Hy 4071*Date *Jan 1*Machine. . . Reel. *Navy*Turns *690* Cor. + *69* Depth *759 fms*Shot or lead *35 lbs.*Bottom *bn. M. fine. S.*Bottom temperature *37.70*No. of thermometer *9555* Cor. *+0.1*Corrected temperature *37.8*Air *77* Surface *74* Drift

Trawl or dredge

## SOUNDING WIRE.

DOWN.

UP.

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

*55.20* *11.40*

0

*56.20* *10.40*

100

*57.20* *09.40*

200

*58.20* *08.40*

300

*59.20* *07.40*

400

*00.20* *06.40*

500

*01.20* *05.40*

600

*02.20* *04.40*

700

*03.20* *03.40*

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
690	177	3600	
3910	67	3700	
	670	3800	
	759	3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

501.

No. *4092* Date *July 17, 1902*

Machine. *#1* Reel. *Hand*

Turns *910* Cor. + *5* Depth *915*

Shot or lead *35 lbs.*

Bottom *m. m. S.*

Bottom temperature *36.3*

No. of thermometer *98230* Cor. *+0.1*

Corrected temperature *36.4*

Air *76* Surface *74* Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

<i>12-39.40</i>	<i>57.55</i>	0
<i>41.25</i>	<i>58.50</i>	100
<i>42.45</i>	<i>59.30</i>	200
<i>44.25</i>	<i>57.55</i>	300
<i>44.35</i>	<i>58.50</i>	400
<i>45.00</i>	<i>57.50</i>	500
<i>45.10</i>	<i>57.50</i>	600
<i>48.30</i>	<i>57.50</i>	700
<i>50.45</i>	<i>54.35</i>	800
<i>51.15</i>	<i>53.05</i>	900
<i>51.45</i>	<i>52.30</i>	910
		1000
		1100
		1200
		1300
		1400
		1500
		1600
		1700
		1800
		1900
		2000
		2100
		2200
		2300
		2400

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

1600 226  
910 158  

---

3640 88  
910  

---

775

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

*Stadler*  
 No. *4093* Date *Apr 1*  
 Machine: - Reel.  
 Turns/38 Cor. + Depth *144*  
 Shot or lead *3.5 #*  
 Bottom *P. + S. H.*  
 Bottom temperature  
 No. of thermometer *98232* Cor. -0.3  
 Corrected temperature *60.0*  
 Air *76* Surface *76* Drift  
 Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400



Mokuhooniki K. Mokuhooniki

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Station *PS. 34.7*  
 No. *Hy 4094* Date *1 April 1902*  
*Tanner* Machine. Reel.  
 Turns *116* Cor. + *5* Depth *121 fms.*  
~~Shot or lead~~ *35 lbs.*  
 Bottom *S. P. M. S. H.*  
 Bottom temperature *63.0*  
 No. of thermometer *98233* Cor. *0*  
 Corrected temperature *63.0*  
 Air *76* Surface *76* Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>4-35-30</i>	<i>4-40-25</i>	0		
<i>36.30</i>	<i>39.15</i>	100		
<i>37.20</i>	<i>4.38.00</i>	200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

NO. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

JK  
1000

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Alban Channel -  
bet. Maine & Penn.

No. 2090

Date

Machine

Reel

Turns

Cor. +

Depth 14

~~Shot or lead~~

Bottom

Bottom temperature

No. of thermometer

None Cor.

Corrected temperature

Air

77

Surface

76

Drift

none

Trawl or dredge

Gleet & 1 + Dip Net

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*Lat. 30° 10' N. Long. 122° 10' W.*

*Cal. 30.5*

*Lat. 30° 10' N. Long. 122° 10' W.*

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	<i>Limit</i>	<i>Surface air.</i>		
50	<i>Ass.</i>	<i>near bed plankton.</i>		
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

*Catch:*

*441*

*Seaweeds with 2 kinds attached.*

No.

3871

Date

12

Machine.

Reel.

Turns

Cor. +

Depth

13 fms

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

72

Surface

76

Drift

Trawl or dredge

6 hook dredge

SOUNDING WIRE.

DOWN.

UP.

7-37

7-28

TURNS.

DREDGE ROPE.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

onges; plumularian  
hydroid; 2 or more sps. urchins;  
2 sp. crabs; 2 sp. starfish;  
ophiurans; 3 sp. worms;  
ascidians.

## REMARKS:

all  
all

No. *11* Date *July 17*  
*Reel* Machine. Reel.  
Turns *41* Cor. + Depth *41*  
Shot or lead *35 lb*  
Bottom *gy. S. P. + G.*  
Bottom temperature *74*  
No. of thermometer *98232* Cor. *+0.1*  
Corrected temperature *74.6*  
Air *77* Surface *71* Drift  
Trawl or dredge *032X*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>6:09.20</i>	<i>11.45</i>	0	<i>8:14.00</i>	<i>32.00</i>
	<i>11:10</i>	<i>41</i>	<i>19.00</i>	<i>27.40</i>
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
	<i>32.1</i>	1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



U.S. Fish Commission, Honolulu, T.H.

54

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

St. O. & 1858

49.6  
41  
45.5

12  
10

41  
43

7500

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900	Catch: 3 bushels green coralline. Sev'l fishes; many small brachy-			
1000				

urans; pistol crabs; 3 or 4 kinds

## REMARKS:

Starfish; 3 kinds urchins; 4 to 6 kinds  
ophiurans; 3 kinds holothurians;  
Several worms - 1 planarian;  
foliated crabs; fungia; many ascidians;  
sponges; anemones; a number of  
small mollusks

No. 213 D

Date 12 Apr 02

Machine.

Reel.

Turns 31 Cor. +

Depth 32.5 V

Shot or lead

Bottom G. + P.

Bottom temperature 12.5

No. of thermometer 98233

Cor. +0.1

Corrected temperature 74.6

Air 77

Surface 75

Drift 11

Trawl or dredge 6' Swabs

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

37.10

31.10

29

21

1100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

6.41.00 02.10

4.3.50 58.50

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

31  
37

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

## REMARKS:

Catch: Much the same as at #3872, but less.

No.

H 1095

Date

12

Machine.

Reel.

Turns

36

Cor. +

1

Depth

27

Shot or lead

35 lb

Bottom

P.

Bottom temperature

74.2

No. of thermometer

98233

Cor. +0.1

Corrected temperature

74.8

Air

84

Surface

77

Drift

Trawl or dredge

11

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

Aug

0  
100  
200  
300  
400  
500  
600  
700  
800  
900  
1000  
1100  
1200  
1300  
1400  
1500  
1600  
1700  
1800  
1900  
2000  
2100  
2200  
2300  
2400

Mokuhooniki R., Molokai Chanl  
 N 8° E, true 18 miles

0.1  
 5.0.7.

496  
 36  
 460

12  
 10  
 2  
 36  
 38

2500  
 2600  
 2700  
 2800  
 2900  
 3000  
 3100  
 3200  
 3300  
 3400  
 3500  
 3600  
 3700  
 3800  
 3900  
 4000

HO # 68.

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

*No.**Date**Machine.**Reel.**Turns**Cor. +**Depth**Shot or lead**Bottom**Bottom temperature**No. of thermometer**Cor.**Corrected temperature**Air**Surface**Drift**Trawl or dredge*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2.

2- 35<sup>th</sup>

---

3- 60<sup>th</sup> } total  
15- 35<sup>th</sup> }